UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

30827

7590

06/15/2009

MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW WASHINGTON, DC 20006

EXAMINER				
LE, HOA T				
ART UNIT	PAPER NUMBER			
1794				

DATE MAILED: 06/15/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,442	09/01/2006	Henri Perez	10404.035.00	2303

TITLE OF INVENTION: NANOPARTICLES COMPRISING A METAL CORE AND AN ORGANIC DOUBLE COATING USEFUL AS CATALYSTS

AND DEVICE CONTAINING THE NANOPARTICLES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/15/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed otl	ng the Patent, advance of herwise in Block 1, by (orders and notification of a) specifying a new con	of m rresp	aintenance fees woondence address;	ill be and/or	mailed to the current (b) indicating a separ	correspondence addrate "FEE ADDRE	dress as ເSS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
30827 MCKENNA L 1900 K STREE WASHINGTON	ONG & ALDRID Г, NW	9GE LLP	I S a ti	here State: iddre ransi	eby certify that th s Postal Service w essed to the Mail	is Fee(s ith suf Stop	of Mailing or Transm c) Transmittal is being ficient postage for first ISSUE FEE address 1) 273-2885, on the da	deposited with the class mail in an enabove, or being fa	United nvelope icsimile
			ſ					(Deposito	r's name)
								(S	ignature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR		ATTO:	RNEY DOCKET NO.	CONFIRMATION	NO.
10/568,442	09/01/2006	•	Henri Perez				10404.035.00	2303	
AND DEVICE CONTA		COMPRISING A META					G USEFUL AS CAT.	ALYSTS	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	Æ	PREV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE	DATE DUE	1
nonprovisional	NO	\$1510	\$300	_	\$0		\$1810	09/15/2009	
EXAM	MINER	ART UNIT	CLASS-SUBCLASS						
LE, H	IOA T	1794	428-403000						
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.		" Indication form ned. Use of a Customer	(1) the names of up or agents OR, altern (2) the name of a si registered attorney of 2 registered patent a listed, no name will	ngle or ag attori be p	ely, firm (having as a gent) and the nam- neys or agents. If orinted.	memb es of u	er a 2		
PLEASE NOTE: Un	less an assignee is ident th in 37 CFR 3.11. Comp	A TO BE PRINTED ON iffied below, no assignee pletion of this form is NC	data will appear on the T a substitute for filing (B) RESIDENCE: (CI	e pat an a	tent. If an assign ssignment. and STATE OR C	OUNT	RY)		
Please check the appropr	riate assignee category or	r categories (will not be p	rinted on the patent):		Individual 🖵 Co	rporati	on or other private gro	ap entity 📮 Gove	rnment
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
5. Change in Entity Sta	itus (from status indicate	*	☐ b. Applicant is no	long	er claiming SMAI	L ENT	TITY status. See 37 CF	R 1.27(g)(2).	
NOTE: The Issue Fee an	nd Publication Fee (if req	uired) will not be accepte ites Patent and Trademarl	ed from anyone other tha	_	_				party in
Authorized Signature					Date				
Typed or printed name									
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DO	CFR 1.311. The informati 5 U.S.C. 122 and 37 CFR 2 USPTO. Time will vary rden, should be sent to the D NOT SEND FEES OR	on is required to obtain 1.14. This collection is 1.14 this collection is depending upon the interest of the completed of the	or re estindivid ficer TO	tain a benefit by t mated to take 12 r dual case. Any co , U.S. Patent and THIS ADDRESS	he publ minutes mment Traden S. SENI	ic which is to file (and to complete, including s on the amount of tin hark Office, U.S. Depa O TO: Commissioner f	by the USPTO to p gathering, prepari e you require to co tment of Commer or Patents, P.O. Bo	process) ng, and omplete ce, P.O. x 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,442	09/01/2006 Henri Perez		10404.035.00	2303
30827 75	90 06/15/2009		EXAM	INER
MCKENNA LOI	NG & ALDRIDGE I	LP	LE, H	OA T
1900 K STREET, 1			ART UNIT	PAPER NUMBER
WASHINGTON, I	OC 20006		1794	
			DATE MAILED: 06/15/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 260 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 260 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/568,442	PEREZ ET AL.	
Notice of Allowability	Examiner	Art Unit	
	H. (Holly) T. Le	1794	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm GHTS. This application is	in this application. If not included nunication will be mailed in due coul	se. THIS
1. 🔀 This communication is responsive to Amendment filed Feb	ruary 18, 2009.		
2. ☑ The allowed claim(s) is/are <u>1-3,5-8 and 10-31</u> .			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		or (f).	
2. ☐ Certified copies of the priority documents have		ion No	
3. ☑ Copies of the certified copies of the priority documents have	• •		from the
International Bureau (PCT Rule 17.2(a)).	cuments have been receive	ed in this hational stage application	nom the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EX	(AMINER'S AMENDMENT or NOTI	
	, , -		
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 		ow / DTO 048) attached	
(a) ☐ including changes required by the Notice of Dranspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date		w (FTO-940) attached	
(b) ☐ including changes required by the attached Examiner's		or in the Office action of	
Paper No./Mail Date	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the			k) of
DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MAT	ERIAL must be submitted. Note	the
Attachment(s)	5 🗖 Nation of I	wfannal Datant Annilastian	
1. Notice of References Cited (PTO-892)		nformal Patent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No	Summary (PTO-413), ./Mail Date	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. ⊠ Examiner'	s Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material		s Statement of Reasons for Allowan	ice
// / / / / / / / / / / / / / / / / / /	9.	<u>_</u> .	
/H. (Holly) T. Le/ Primary Examiner, Art Unit 1794			

Application/Control Number: 10/568,442 Page 2

Art Unit: 1794

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- 2. Authorization for this examiner's amendment was given in a telephone interview with Applicant's Representative, Michael Alexander, on June 8, 2009.
- 3. The application has been amended as follows:

In the Specification:

The specification has been rewritten as follows:

The invention relates to novel nanoparticles comprising a metal core containing at least one platinoid or an alloy of a platinoid, a first organic coating formed from molecules attached to the surface of the metal core, and a second organic coating formed from molecules different from the molecules forming the first organic coating, and which are grafted onto molecules of the first organic coating. The invention also relates to the use of the nanoparticles as catalysts. The fields of application include devices for producing electrical energy, in particular in fuel cells, devices for detecting or assaying one or more chemical or biological species, in particular in sensors or multisensors, etc. --

In the claims:

Claim 10, line 2, "thiophene acid chloride" has been deleted.

End of Amendment.

Application/Control Number: 10/568,442 Page 3

Art Unit: 1794

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to H. (Holly) T. Le whose telephone number is 571-272-

1511. The examiner can normally be reached on 12:30 p.m. to 9:00 p.m. (EST),

Mondays to Fridays.

/H. (Holly) T. Le/ Primary Examiner, Art Unit 1794

June 8, 2009